

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A non-shrouded device ~~using~~ comprising:

a plurality of individually programmable light emitting diodes ;

a plurality of convex lenses, each associated with a respective one of the programmable light emitting diodes;

a test pattern disposed among the programmable light emitting diodes;

wherein the light emitting diodes are programmed to focus light in a variable circular or other pattern whose diameter is such that the focused light pattern image is projected at different distances outside the macular area of the subject's retina, and such that a variable programmable brightness of each individual light emitting diode is used to determine specific points at which the subject is no longer able to accurately differentiate the test pattern;

wherein contrast sensitivity, accommodation, convergence and acuity of the subject are computed from said specific points; and

wherein the test pattern is directed at the patient may be used to determine the an optimum sunglass or filter color and density for a patient the subject based on said computed contrast sensitivity, accommodation, convergence and acuity.

2. (Currently Amended) A This device as in claim 1 wherein:

test patterns which exhibit can be used to determine the patient's response to various spatial frequency frequencies are used to determine the subject's end point response to spatial frequency under varying conditions of illumination color and intensity;

filters or sunglasses of varying color and density patterns held at an angle perpendicular to the line of sight from the pattern to the patient under varying

~~conditions of lighting and with filters or sunglasses of various colors and~~
~~densities~~ are interposed between the subject's eye and the test pattern to
determine the range of color and density that will allow the subject to have
maximum visual acuity, light adaptation, accommodation, convergence and pupil
response;

saturation of different colors of light provides information regarding
response and visual comfort for the optimum selection of tinted or special filter
lenses for reading, sports, medical needs, occupational safety, driving and
improved visual function for accurate comfortable vision.

3. (Currently Amended) A device as in claim 2 wherein:

tri-stimulus light emitting diodes capable of emitting red, green and blue
light in ~~The use of filters or sunglasses~~ various amounts to render white light or
variations of colors as programmed by a microprocessor for a specific test
interact with filters of various colors, polarizations and densities interposed
between the device and the patient may ~~subject's eyes and the device to provide~~
information regarding the health of the patient's ~~subject's~~ retina, light adaptive
system; cornea and other ocular media by measuring colored or white light
saturation and scattering over various adaptive periods.